

TPDES PERMIT MAJOR/MINOR RATING WORK SHEET

TPDES No.: WQ0005253000

NPDES No.: TX0138347

Facility Name: Port of Corpus Christi Authority of Nueces County

City/County: Corpus Christi / Nueces

Receiving Water (Name/Segment No.):

Corpus Christi Bay 2481

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (no cooling pond/lake).
2. A nuclear power plant.
3. Cooling water discharge greater than 25% of the receiving waters 7Q2 flow rate.

☐ YES (score is 600, stop here).
☒ NO (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

☐ YES (score is 700, stop here).
☒ NO (continue)

FACTOR 1: Toxic Pollutant Potential

Primary SIC Code: 4491

Other SIC Codes: _____

Industrial Subcategory Code _____

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one.

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input checked="" type="checkbox"/> No process wastestreams	0	0	<input type="checkbox"/> 3.	3	15	<input type="checkbox"/> 7.	7	35
<input type="checkbox"/> 1.	1	5	<input type="checkbox"/> 4.	4	20	<input type="checkbox"/> 8.	8	40
<input type="checkbox"/> 2.	2	10	<input type="checkbox"/> 5.	5	25	<input type="checkbox"/> 9.	9	45
			<input type="checkbox"/> 6.	6	30	<input type="checkbox"/> 10.	10	50

CODE NUMBER CHECKED 0
TOTAL POINTS FACTOR 1: 0

FACTOR 2: Flow/Stream Flow Volume (Complete either Section A or B; check only one)

SECTION A - Wastewater Flow Only Considered

		Code	Points
Type I:	Flow < 5 MGD	<input type="checkbox"/> 11	0
	Flow 5 to 10 MGD	<input type="checkbox"/> 12	10
	Flow 10 to 50 MGD	<input type="checkbox"/> 13	20
	Flow > 50	<input type="checkbox"/> 14	30
Type II:	Flow < 1 MGD	<input type="checkbox"/> 21	10
	Flow 1 to 5 MGD	<input type="checkbox"/> 22	20
	Flow 5 to 10 MGD	<input type="checkbox"/> 23	30
	Flow > 10 MGD	<input type="checkbox"/> 24	50
Type III	Flow < 1 MGD	<input type="checkbox"/> 31	0
	Flow 1 to 5 MGD	<input type="checkbox"/> 32	10
	Flow 5 to 10 MGD	<input type="checkbox"/> 33	20
	Flow > 10 MGD	<input checked="" type="checkbox"/> 34	30

SECTION B - Wastewater & Stream Flow Considered

	Percent Effluent @ Mixing Zone	Code	Points
Type I/III:	< 10%	<input type="checkbox"/> 41	0
	10% to 50%	<input type="checkbox"/> 42	10
	> 50%	<input type="checkbox"/> 43	20
Type II:	< 10%	<input type="checkbox"/> 51	0
	10% to 50%	<input type="checkbox"/> 52	20
	> 50%	<input type="checkbox"/> 53	30

CODE NUMBER CHECKED 34
TOTAL POINTS FACTOR 2: 30

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FACTOR 3: Conventional Pollutants (Only when limited by the permit)

A. Oxygen Demanding Pollutant: (check one) ☐ BOD/CBOD ☐ COD ☐ Other:

Permit Limits: (check one)			<u>Code</u>	<u>Points</u>
<input type="checkbox"/>	< 100 lbs/day		1	0
<input type="checkbox"/>	100 to 1000 lbs/day		2	5
<input type="checkbox"/>	1000 to 3000 lbs/day		3	15
<input type="checkbox"/>	> 3000 lbs/day		4	20

B. Total Suspended Solids (TSS)

Permit Limits: (check one)			<u>Code</u>	<u>Points</u>
<input type="checkbox"/>	< 100 lbs/day		1	0
<input type="checkbox"/>	100 to 1000 lbs/day		2	5
<input type="checkbox"/>	1000 to 5000 lbs/day		3	15
<input type="checkbox"/>	> 5000 lbs/day		4	20

C. Nitrogen Pollutant: (check one) ☐ Ammonia ☐ Other:

Permit Limits: (check one)		<u>Nitrogen Equivalent</u>	<u>Code</u>	<u>Points</u>
<input type="checkbox"/>	< 300 lbs/day		1	0
<input type="checkbox"/>	300 to 1000 lbs/day		2	5
<input type="checkbox"/>	1000 to 3000 lbs/day		3	15
<input type="checkbox"/>	> 3000 lbs/day		4	20

CODE NUMBER CHECKED

POINTS FACTOR 3:

A - B - C -
 A 0 + B 0 + C 0 = 0 Total

FACTOR 4: Public Health Impacts

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

- ☐ YES (If yes, check toxicity potential number below)
☒ NO (If no, go to Factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column - check one below.)

Toxicity Group	Code	Points
<input type="checkbox"/> No process wastestreams	0	0
<input type="checkbox"/> 1.	1	0
<input type="checkbox"/> 2.	2	0

Toxicity Group	Code	Points
<input type="checkbox"/> 3.	3	0
<input type="checkbox"/> 4.	4	0
<input type="checkbox"/> 5.	5	5
<input type="checkbox"/> 6.	6	10

Toxicity Group	Code	Points
<input type="checkbox"/> 7.	7	15
<input type="checkbox"/> 8.	8	20
<input type="checkbox"/> 9.	9	25
<input type="checkbox"/> 10.	10	30

CODE NUMBER CHECKED

TOTAL POINTS FACTOR 4:

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FACTOR 5: Water Quality Factors

- A. *Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?*

<input checked="" type="checkbox"/> YES	Code	Points
<input type="checkbox"/> NO	1	10
	2	0

- B. *Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?*

<input checked="" type="checkbox"/> YES	Code	Points
<input type="checkbox"/> NO	1	0
	2	5

- C. *Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?*

<input type="checkbox"/> YES	Code	Points
<input checked="" type="checkbox"/> NO	1	10
	2	0

CODE NUMBER CHECKED

POINT FACTOR 5:

A	<u>1</u>	B	<u>1</u>	C	<u>2</u>	
A	<u>10</u>	+	B	<u>0</u>	+	C
				<u>0</u>		=
						<u>10</u>
						Total

FACTOR 6: Proximity to Near Coastal Waters

Base Score: Enter flow code here (from Factor 2): 34

Enter the multiplication factor that corresponds to the flow code: 0.15

Check appropriate facility HPRI Code (from PCS):

	HPRI#	CODE	HPRI Score
<input type="checkbox"/>	1	1	20
<input type="checkbox"/>	2	2	0
<input checked="" type="checkbox"/>	3	3	30
<input type="checkbox"/>	4	4	0
<input type="checkbox"/>	5	5	0

HPRI code checked: | 3 |

Flow Code	Multiplication Factor
11, 31, or 41	0.00
12, 32, or 42	0.05
13, 33, or 43	0.10
14 or 34	0.15
21 or 51	0.10
22 or 52	0.30
23 or 53	0.60
24	1.00

Base Score: (HPRI Score) 30 X (Multiplication Factor) 0.15 = 4.5 (Total Points)

- B. *Additional Points -- NEP Program*

For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions)?

<input type="checkbox"/> YES	Code	Points
<input checked="" type="checkbox"/> NO	1	10
	2	0

- C. *Additional Points -- Great Lakes Area of Concern*

For a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern?

<input type="checkbox"/> YES	Code	Points
<input type="checkbox"/> NO	1	10
	2	0

CODE NUMBER CHECKED

POINT FACTOR 6:

A	<u>3</u>	B	<u>2</u>	C	<u>-</u>	
A	<u>4.5</u>	+	B	<u>0</u>	+	C
				<u>0</u>		=
						<u>4.5</u>
						Total

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SCORE SUMMARY

<u>Factor</u>	<u>Description</u>	<u>Total Points</u>
1	Toxic Pollutant Potential	0
2	Flow/Streamflow Volume	30
3	Conventional Pollutants	0
4	Public Health Impacts	0
5	Water Quality Factors	10
6	Proximity to Near Coastal Waters	4.5
TOTAL (Factors 1 through 6)		44.5

S1. Is the total score equal to or greater than 80?

- ☐ YES - Facility is a major, stop here.
☒ NO - Facility is NOT a major, proceed to S2.

S2. Do you want the facility to be designated a discretionary major?

- ☐ YES - Add 500 points to the score above and provide justification below.
☒ NO - Stop here

Justification:

Check appropriate classification:

- ☐ Major
☒ Minor
☐ Discretionary Major

Shannon Gibson
Permit Reviewer

512-239-4284
Phone Number

August 17, 2018
Date Reviewed